

FIG. 1

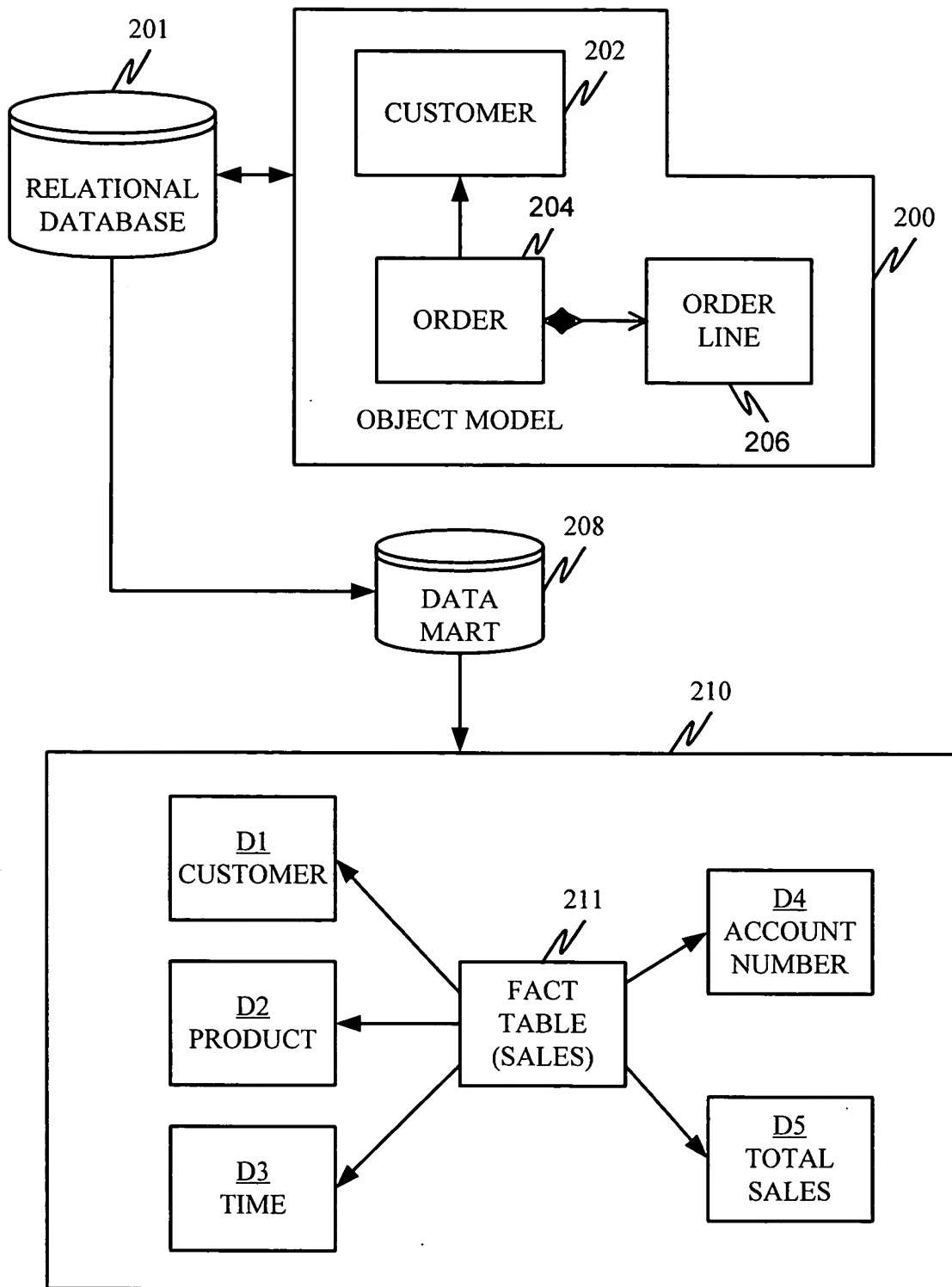


FIG. 2
(PRIOR ART)

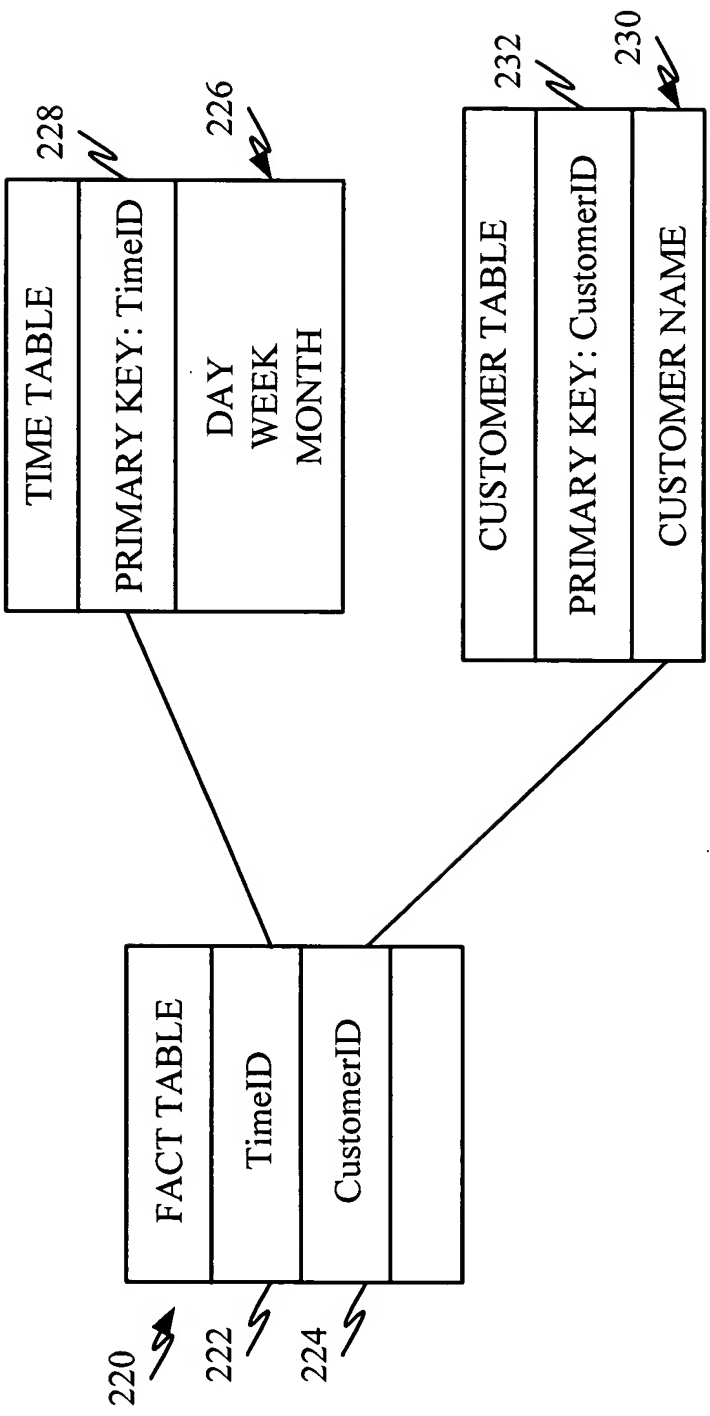


FIG. 3

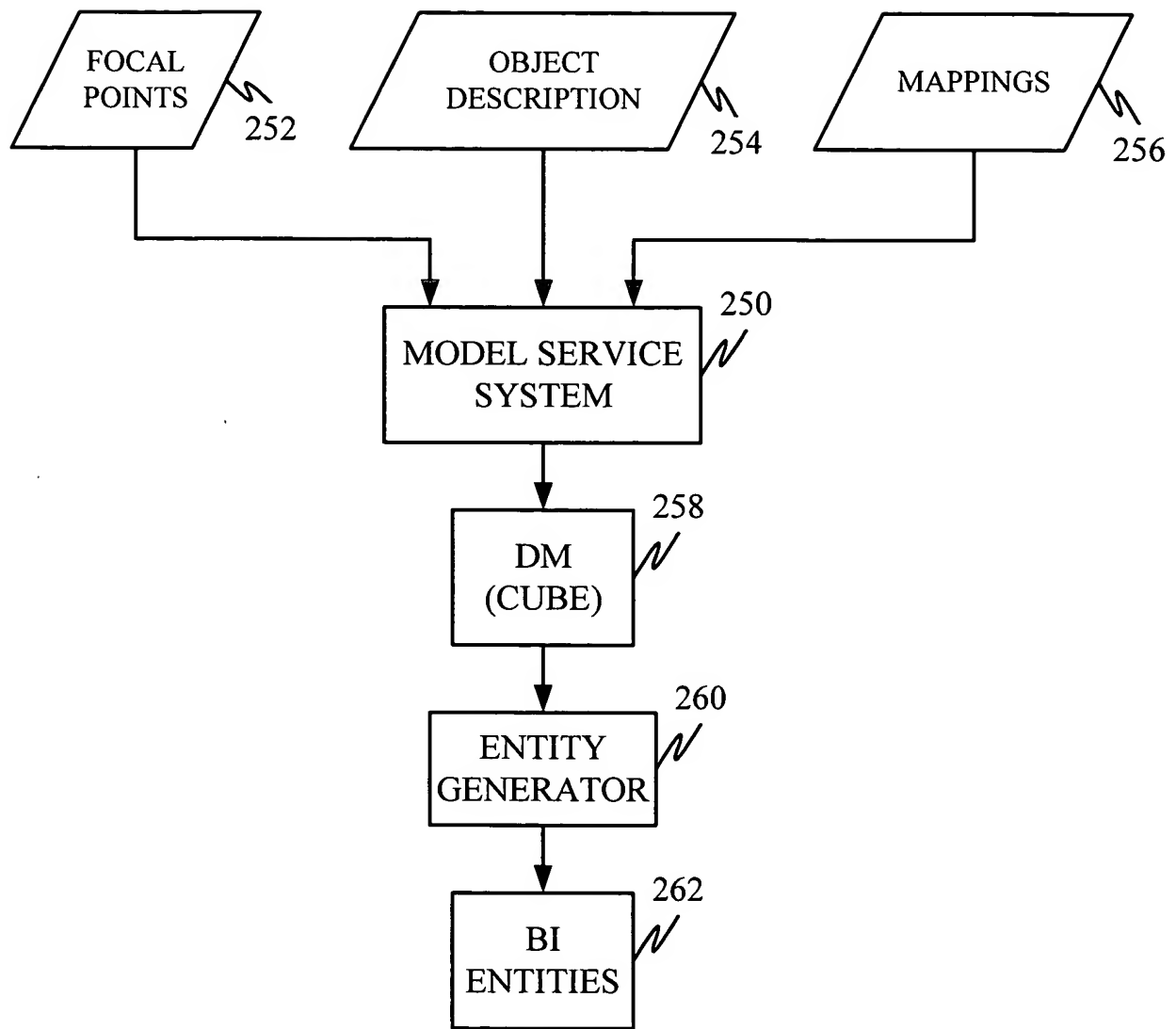


FIG. 4A

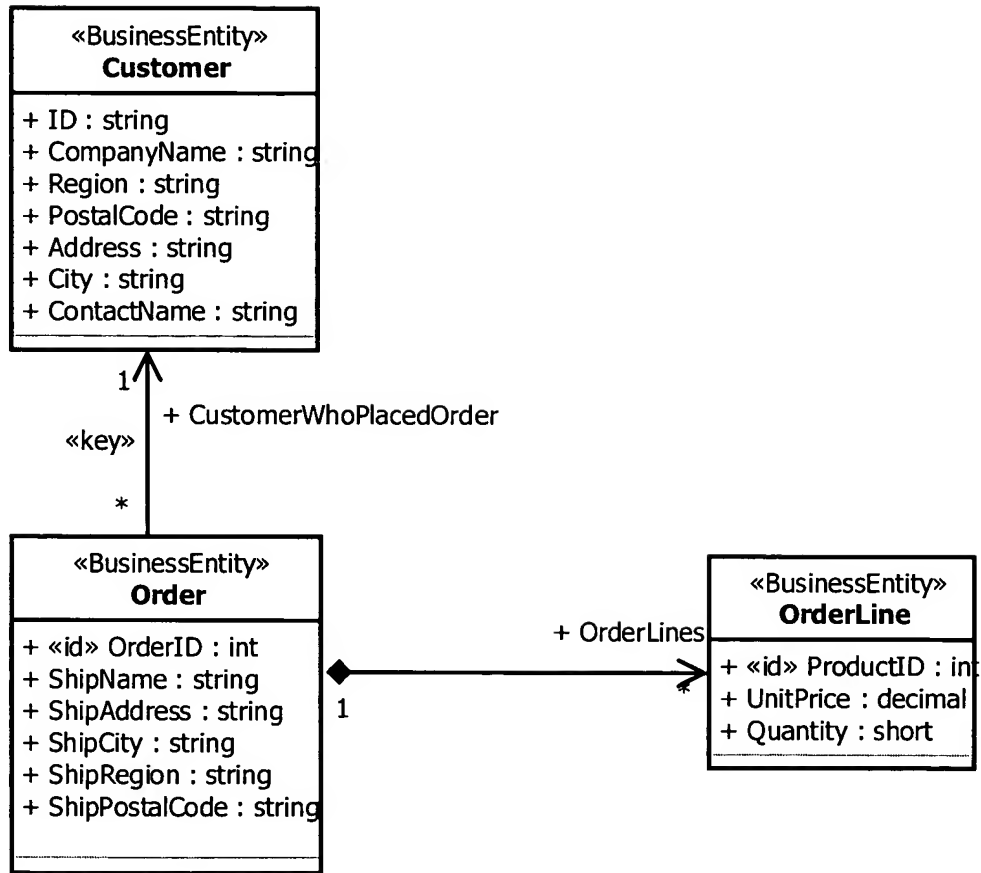
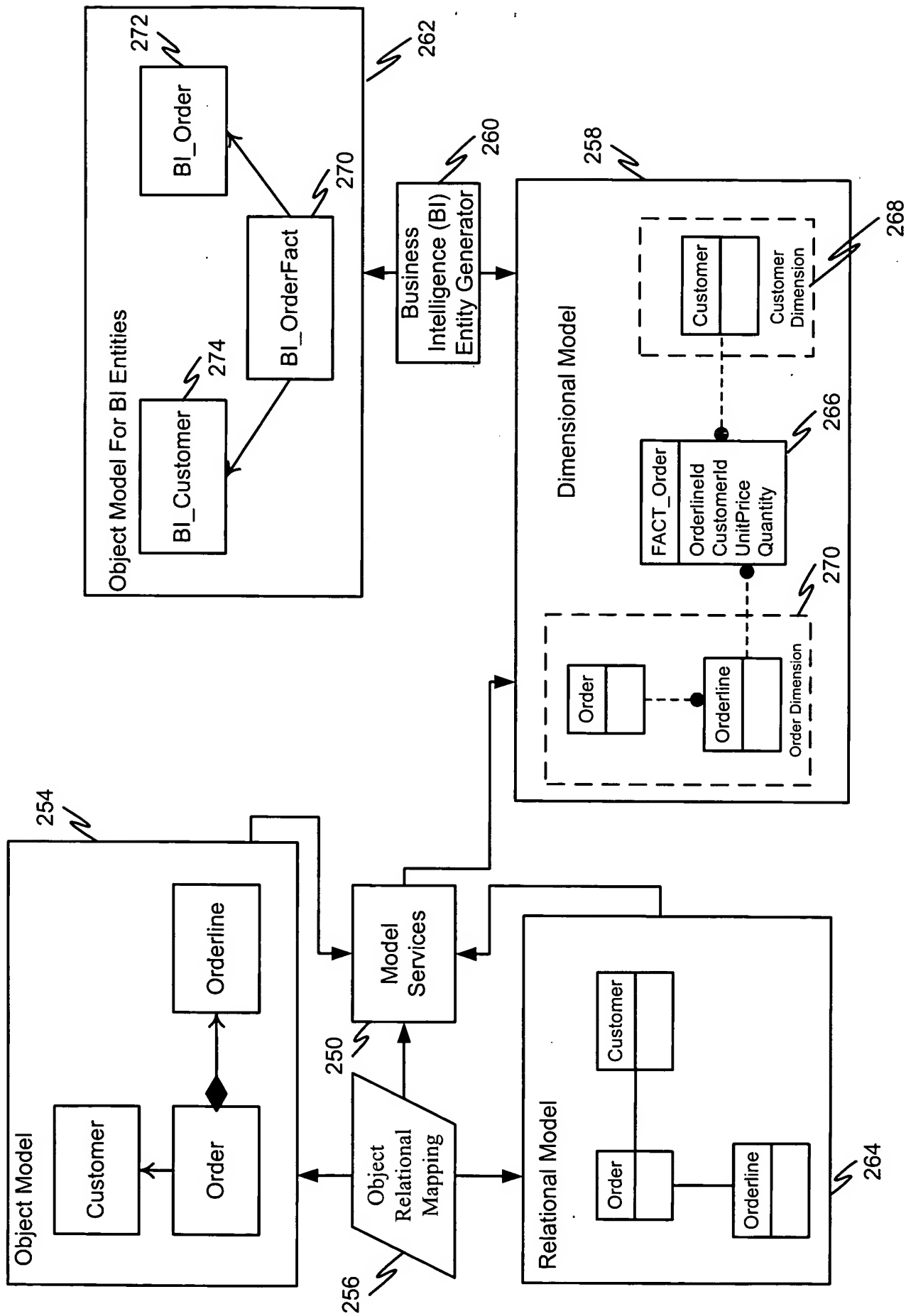


FIG. 4B

FIG. 4C



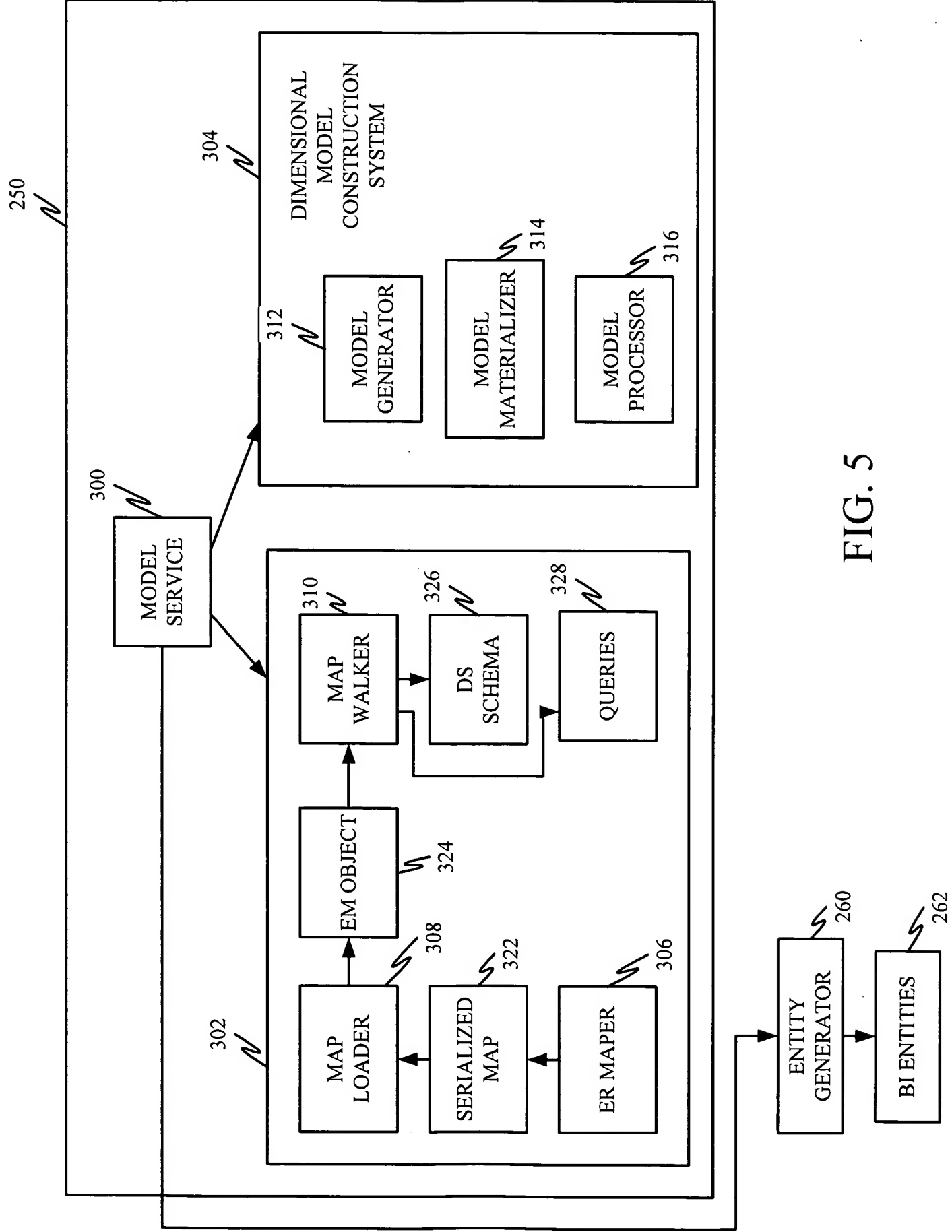


FIG. 5

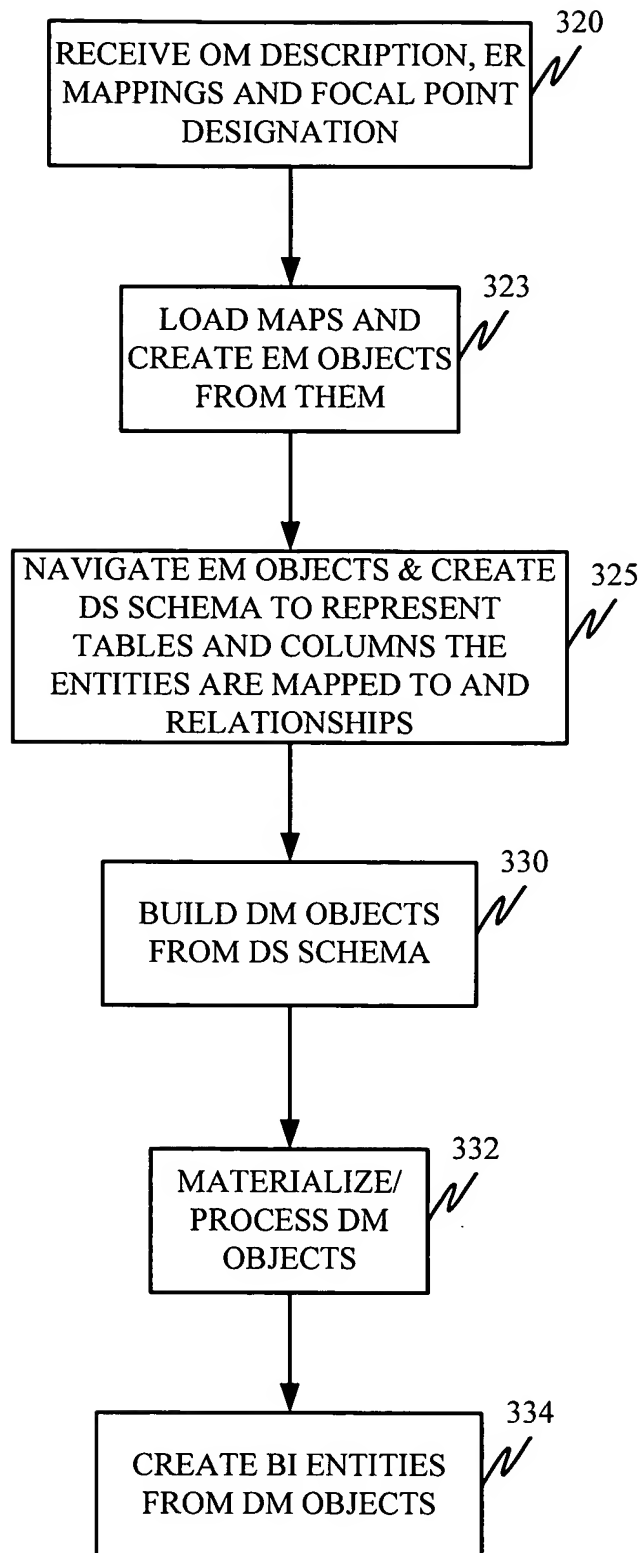


FIG. 6A

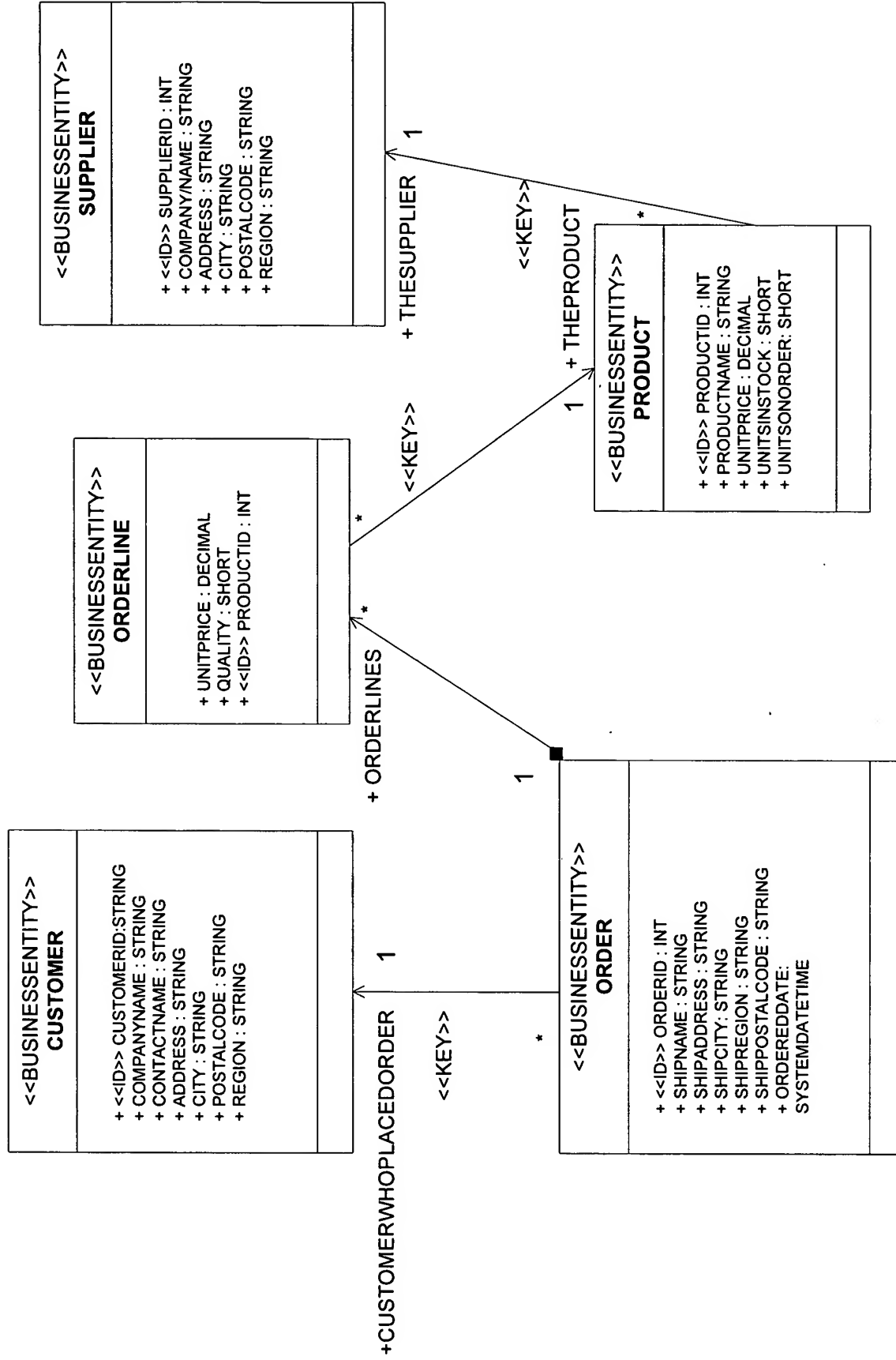


FIG. 6B

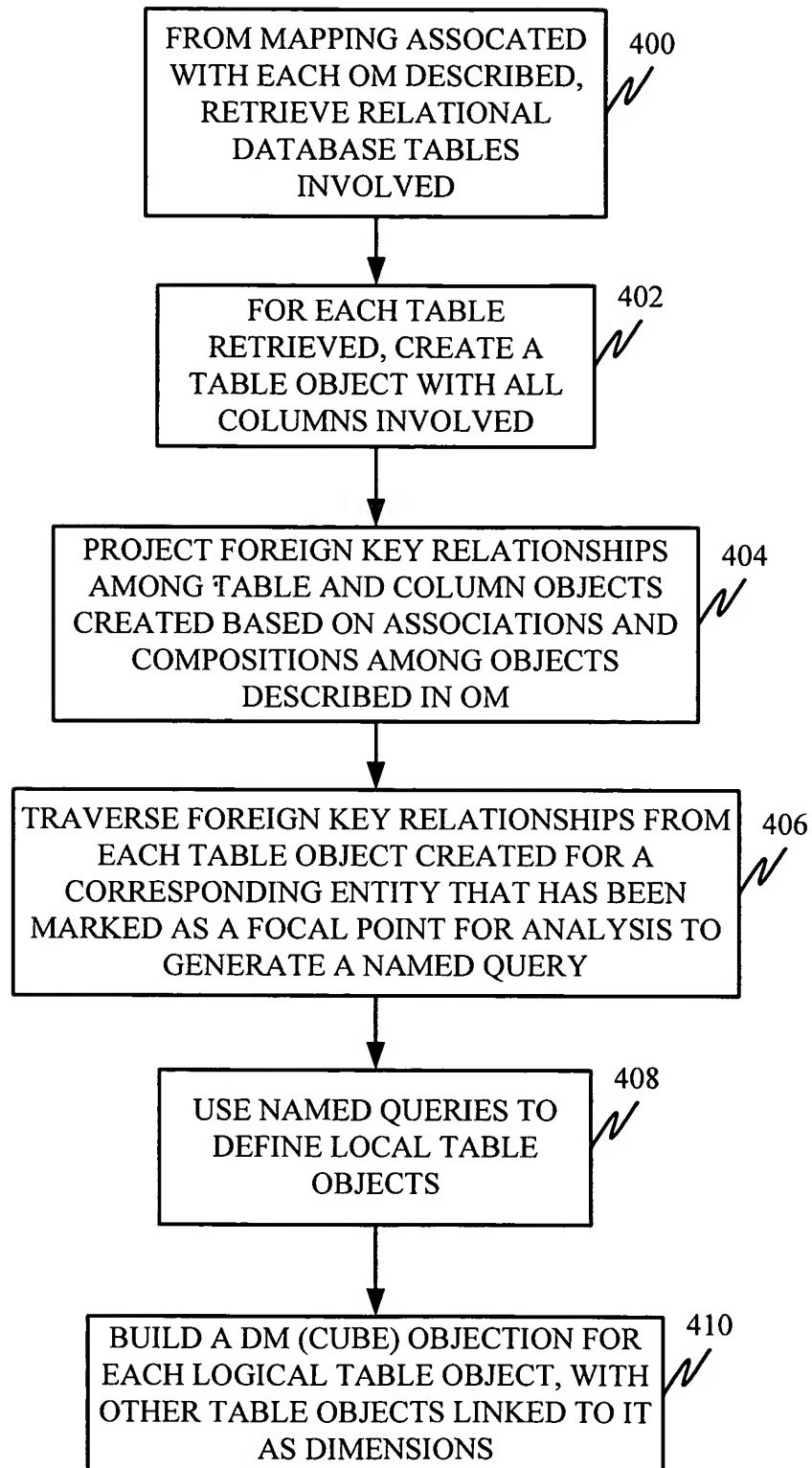


FIG. 7

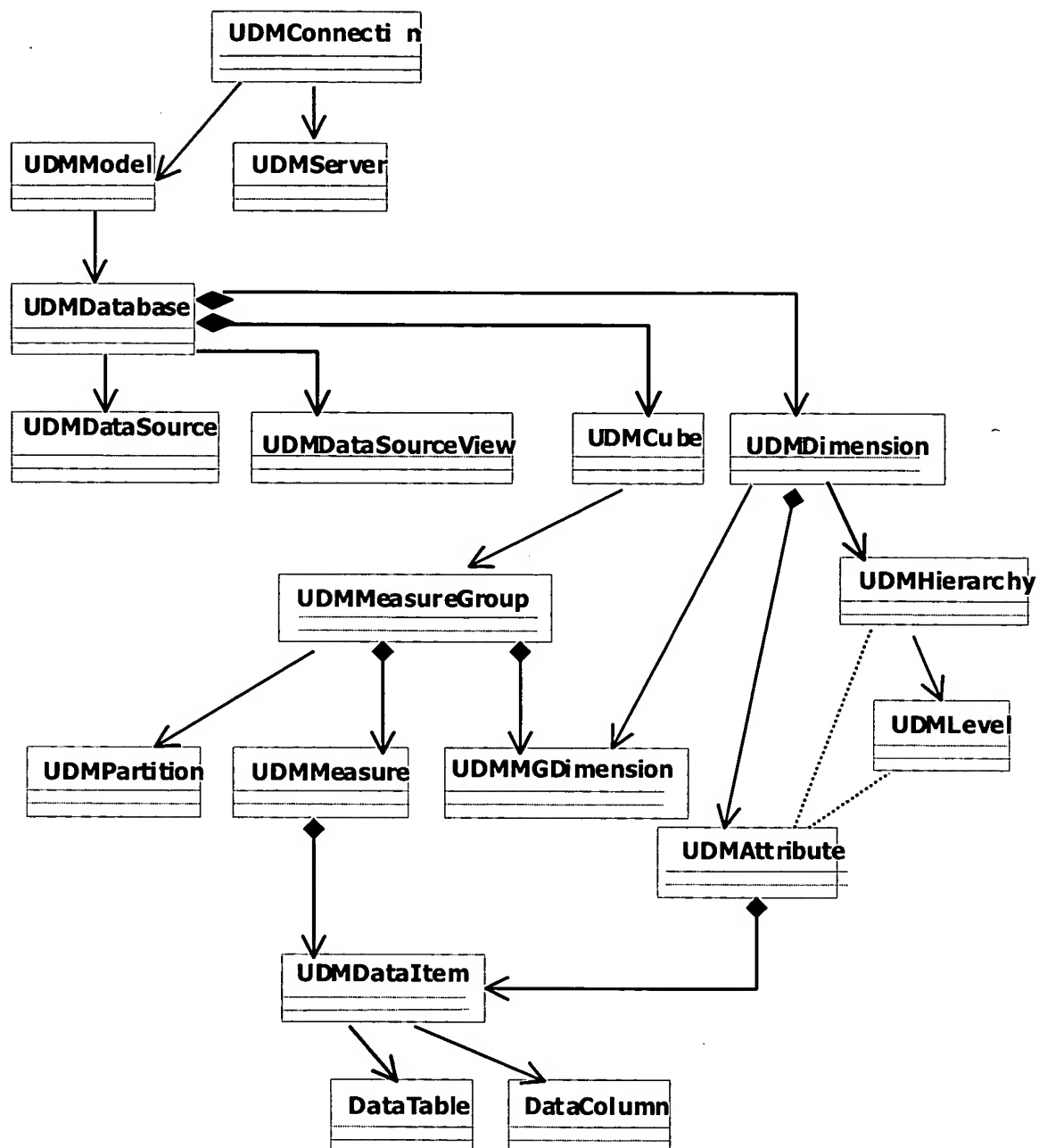


FIG. 8

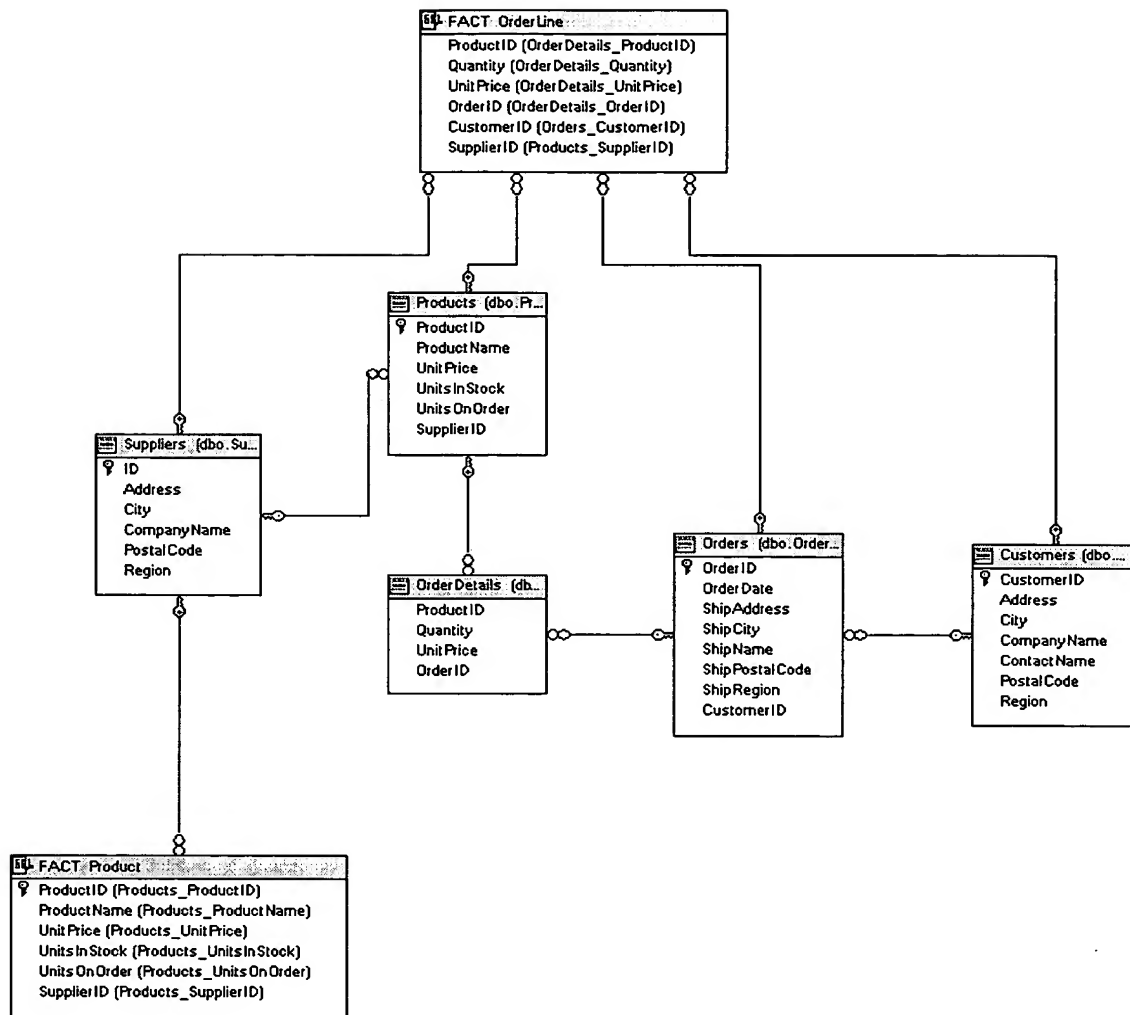


FIG. 9

BEST AVAILABLE COPY

MDX Sample Application - mdxq1.MDX

File Edit Query View Help

DB: MBFDatabase Queries: #1 select [Measures].[&{FACT_Order...

select [Measures].[&{FACT_OrderLine_OrderLine_Quantity}] on columns,
crossjoin([Customer].[City].Members,[Supplier].[City].Members) on rows
from Microsoft_EntityTests

Cube: Microsoft_EntityTests Syntax Examples

Microsoft_EntityTests

	FACT_OrderLine_OrderLine_...
All	51096
Ann Arbor	1436
Annecey	3073
Bend	1573
Berlin	1436
Boston	2084
Cuphaven	612
Frankfurt	4072
Göteborg	928
Lappeenranta	1736
London	2213
Lynby	1056
Manchester	2851
Melbourne	3937
Montceau	534
Montréal	1658
New Orleans	1735
Osaka	1211
Oviedo	1050
Paris	1416
Ravenna	2500
Salerno	1682
Sandvika	2526
Sao Paulo	1125
Singapore	1878
Ste-Hyacinthe	1686
Stockholm	1223
Sydney	2108
Tokyo	1134
Zaandam	623
Aachen	160
Ann Arbor	

MBFREP4

430

432

FIG. 10

BEST AVAILABLE COPY

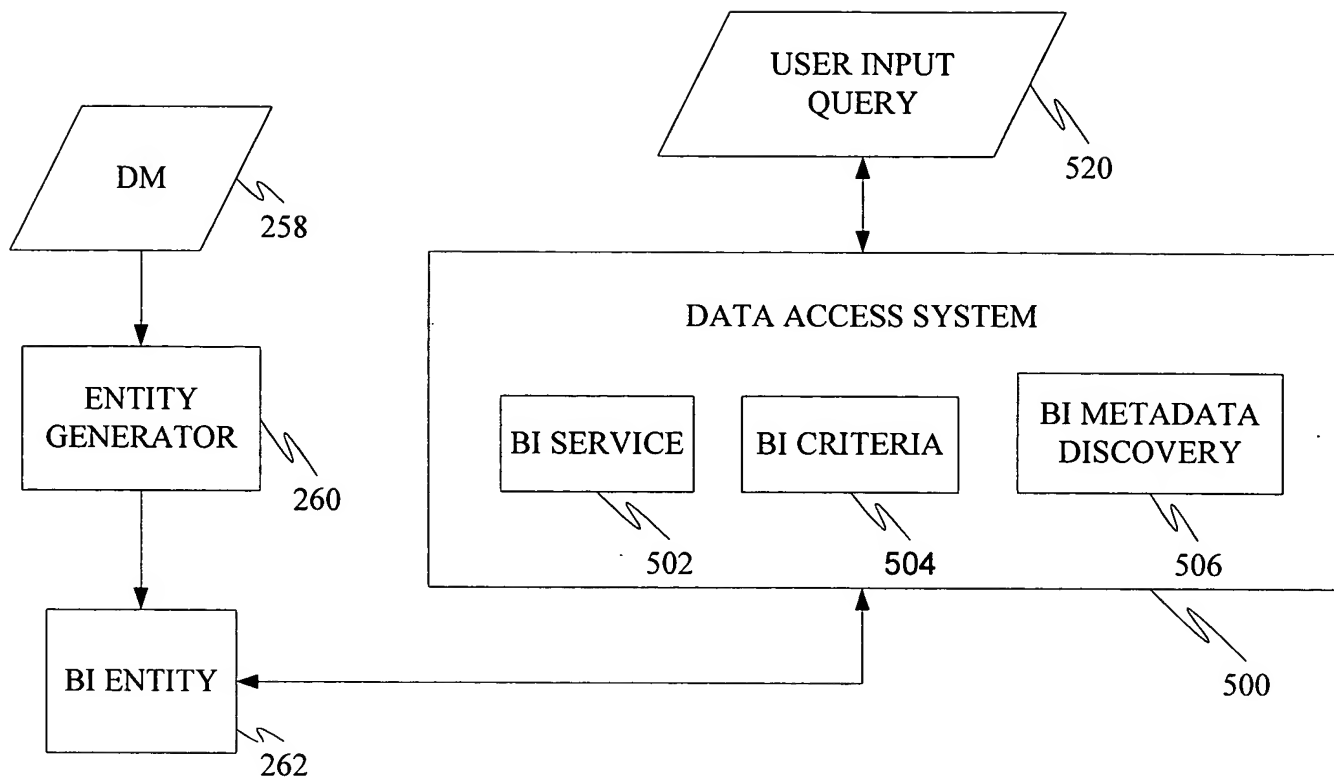


FIG. 11A

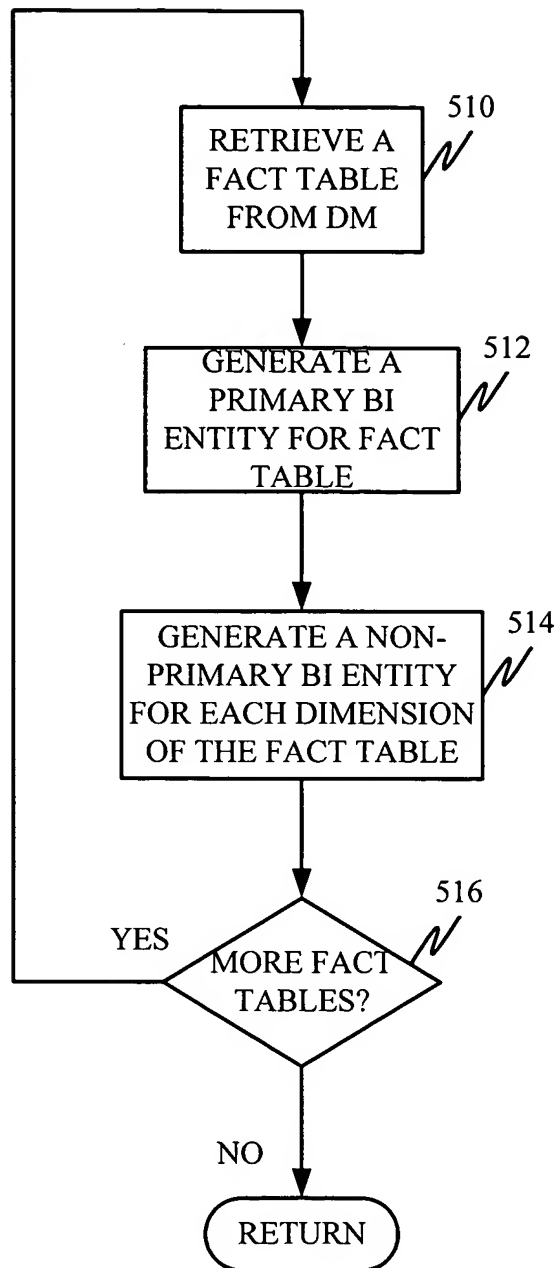


FIG. 11B

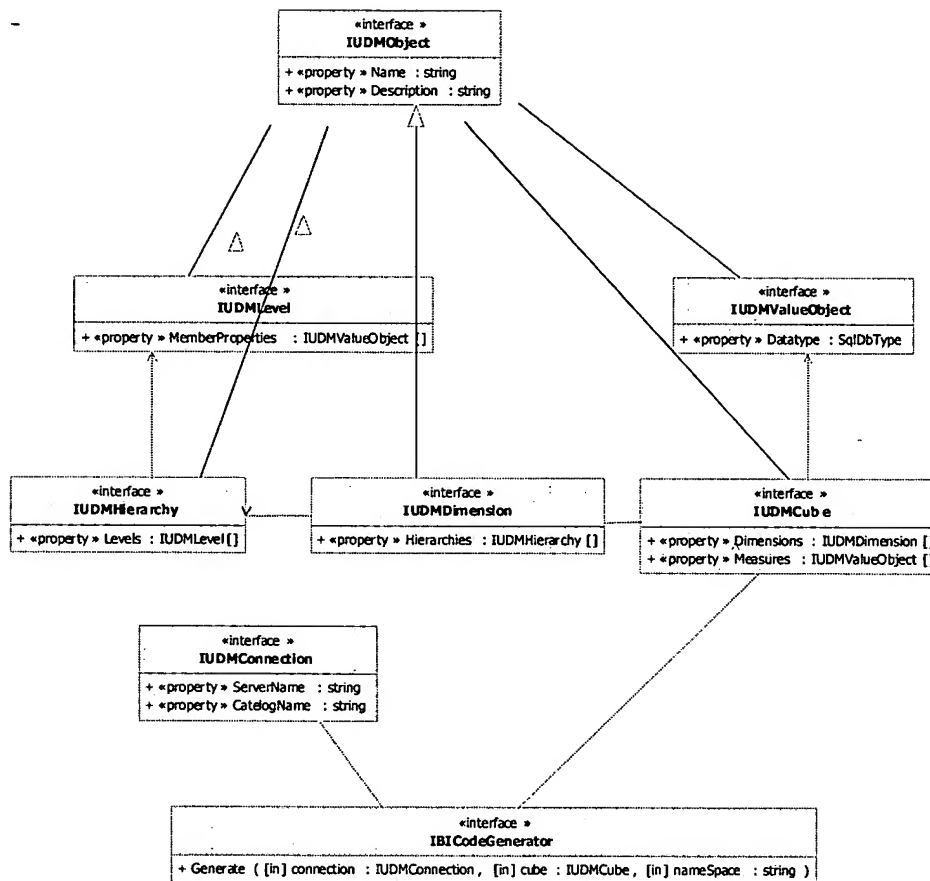


FIG. 12

IBICodeGenerator

It is the primary interface for Code generation.

```
interface IBICodeGenerator
{
    void Generate(IConnection connection,
                  ICube cube,
                  string nameSpace);
}
```

TODO include ICube and IConnection interfaces

```
public static DataSet GetFlattenedData(BICriteria criteria)
{
}
}
```

FIG. 13

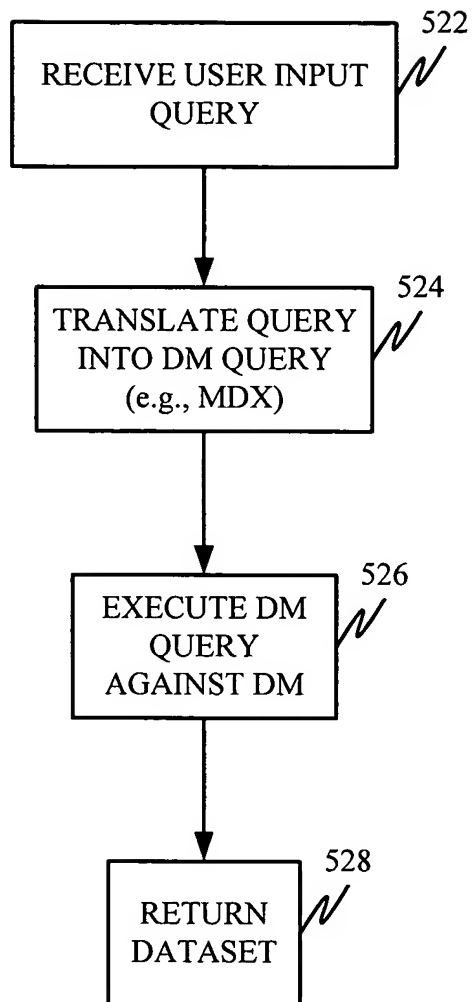


FIG. 14

```

public class BICriteria
{
    public BICriteria(BIContext context, CalculatedMemberList calculatedMemberList,
        AxisList axisList, Where where)
    {
    }

    public BICriteria(BIContext context, AxisList axisList, Where where)
    {
    }

    public BICriteria(BIContext context, CalculatedMemberList calculatedMemberList,
        AxisList axisList)
    {
    }

    public BICriteria(BIContext context, AxisList axisList)
    {
    }

    public static BIContext BIContext(params Type[] types)
    {
    }

    public static Where Where(params string[] sliceVals)
    {
    }

    public static Where Where(params Member[] members)
    {
    }

    public static Axis Axis(params Set[] sets)
    {
    }

    public static AxisList AxisList(params Axis[] axisList)
    {
    }

    public static AxisList AxisList(params Set[] sets)
    {
    }

    public static Set Set(params string[] vals)
    {
    }

    public static Set Set(params Member[] members)
    {
    }

    public static Set Set(params Tuple[] tuples)
    {
    }

    public static CalculatedMemberList CalculatedMemberList(params CalculatedMember[] calculatedMembers)
    {
    }

    public static CalculatedMemberList CalculatedMemberList(Member calculatedMember, ArithmeticExpression expression)
    {
    }
}

```

FIG. 15

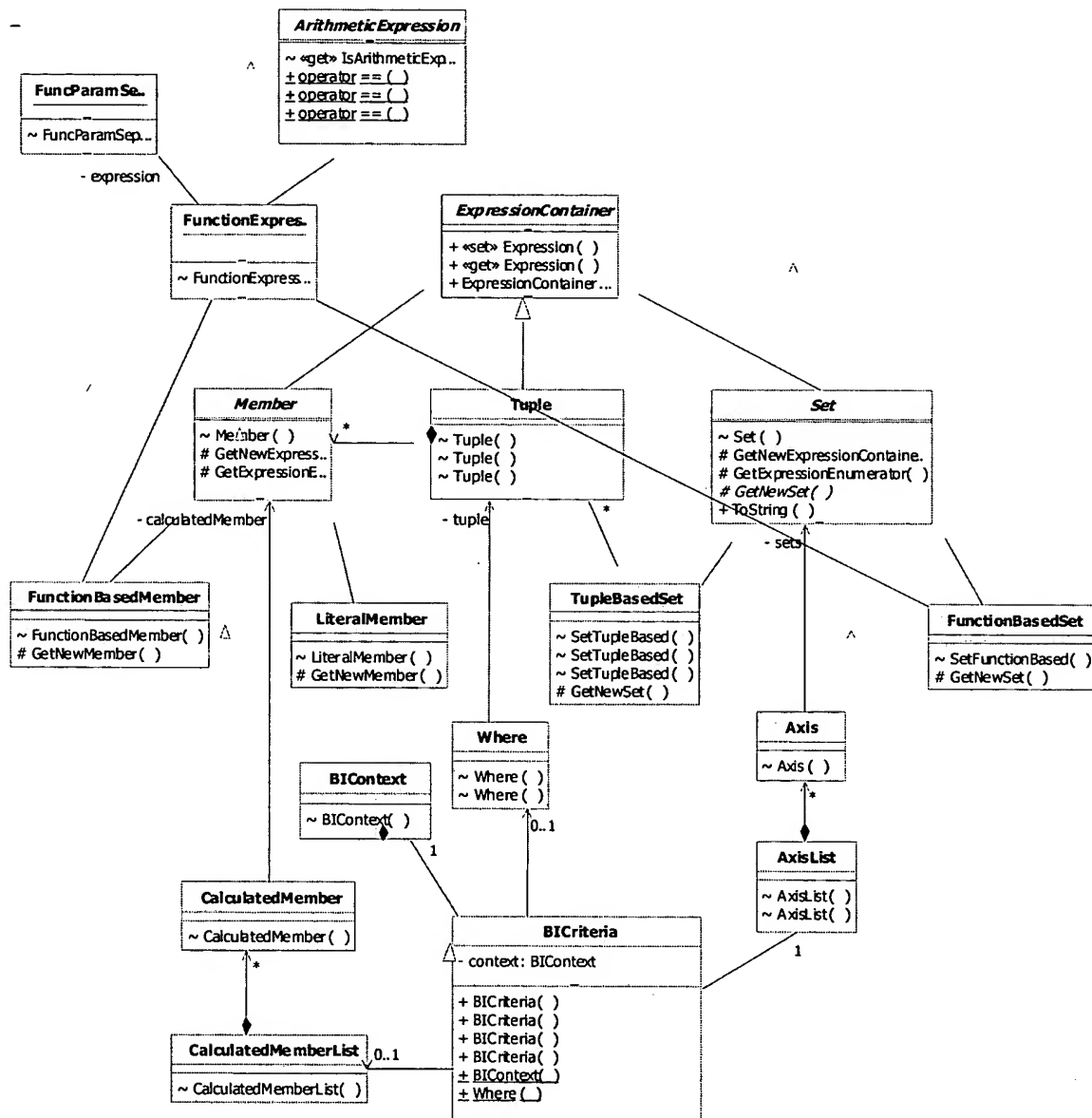


FIG. 16

BEST AVAILABLE COPY

BEST AVAILABLE COPY

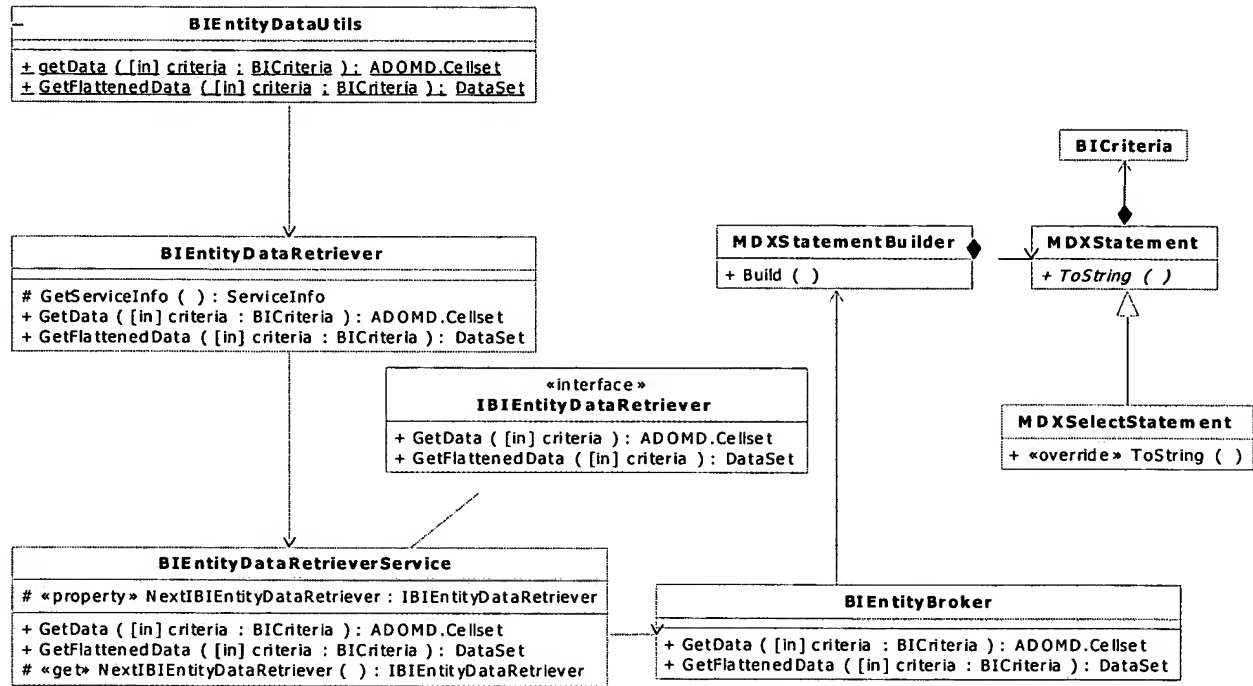
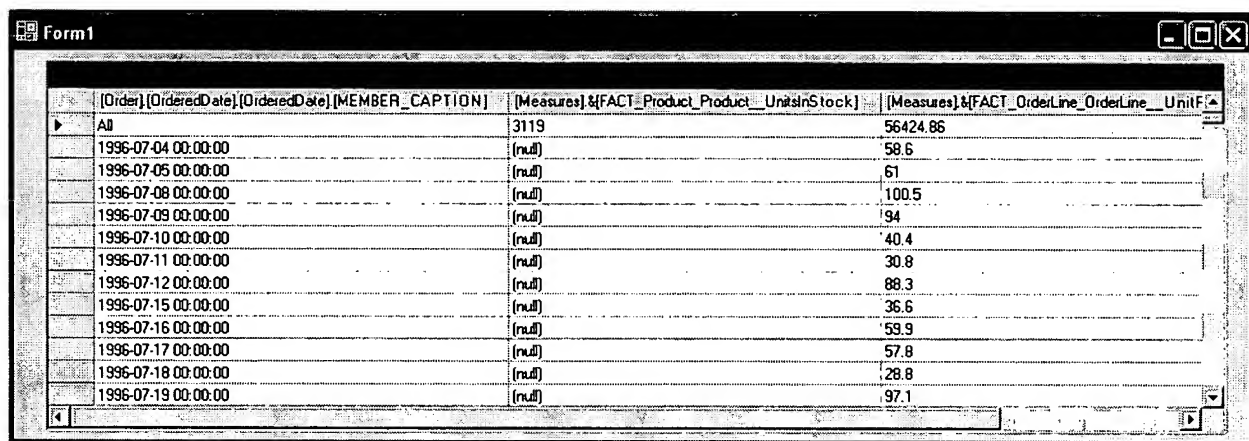


FIG. 17

BEST AVAILABLE COPY

BEST AVAILABLE COPY

BEST AVAILABLE COPY



The screenshot shows a window titled 'Form1' containing a data table. The table has three main columns: a date column, a member caption column, and a measure column. The data is organized into rows, with the first row showing a date of 1996-07-04 00:00:00, a member caption of 3119, and a measure value of 56424.86. Subsequent rows show dates from 1996-07-05 to 1996-07-19, with member captions of (null) and measure values ranging from 58.6 to 97.1.

[Order][OrderedDate][OrderedDate]	[MEMBER_CAPTION]	[Measures]&[FACT_Product_Product_UnitsInStock]	[Measures]&[FACT_OrderLine_OrderLine_UnitF]
1996-07-04 00:00:00	3119		56424.86
1996-07-05 00:00:00	(null)		58.6
1996-07-06 00:00:00	(null)		61
1996-07-07 00:00:00	(null)		100.5
1996-07-08 00:00:00	(null)		94
1996-07-09 00:00:00	(null)		40.4
1996-07-10 00:00:00	(null)		30.8
1996-07-11 00:00:00	(null)		88.3
1996-07-12 00:00:00	(null)		36.6
1996-07-13 00:00:00	(null)		53.9
1996-07-14 00:00:00	(null)		57.8
1996-07-15 00:00:00	(null)		28.8
1996-07-16 00:00:00	(null)		97.1

FIG. 18

BEST AVAILABLE COPY

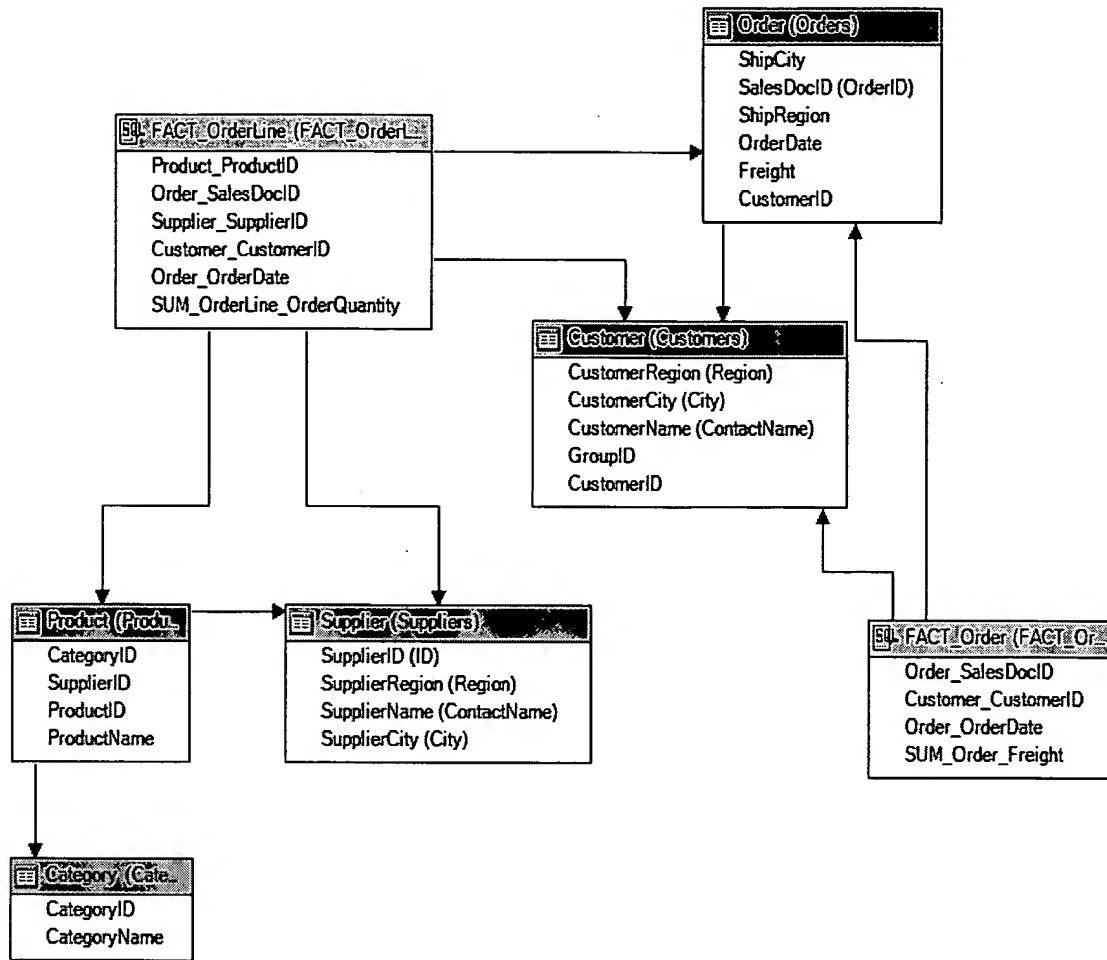


FIG 20

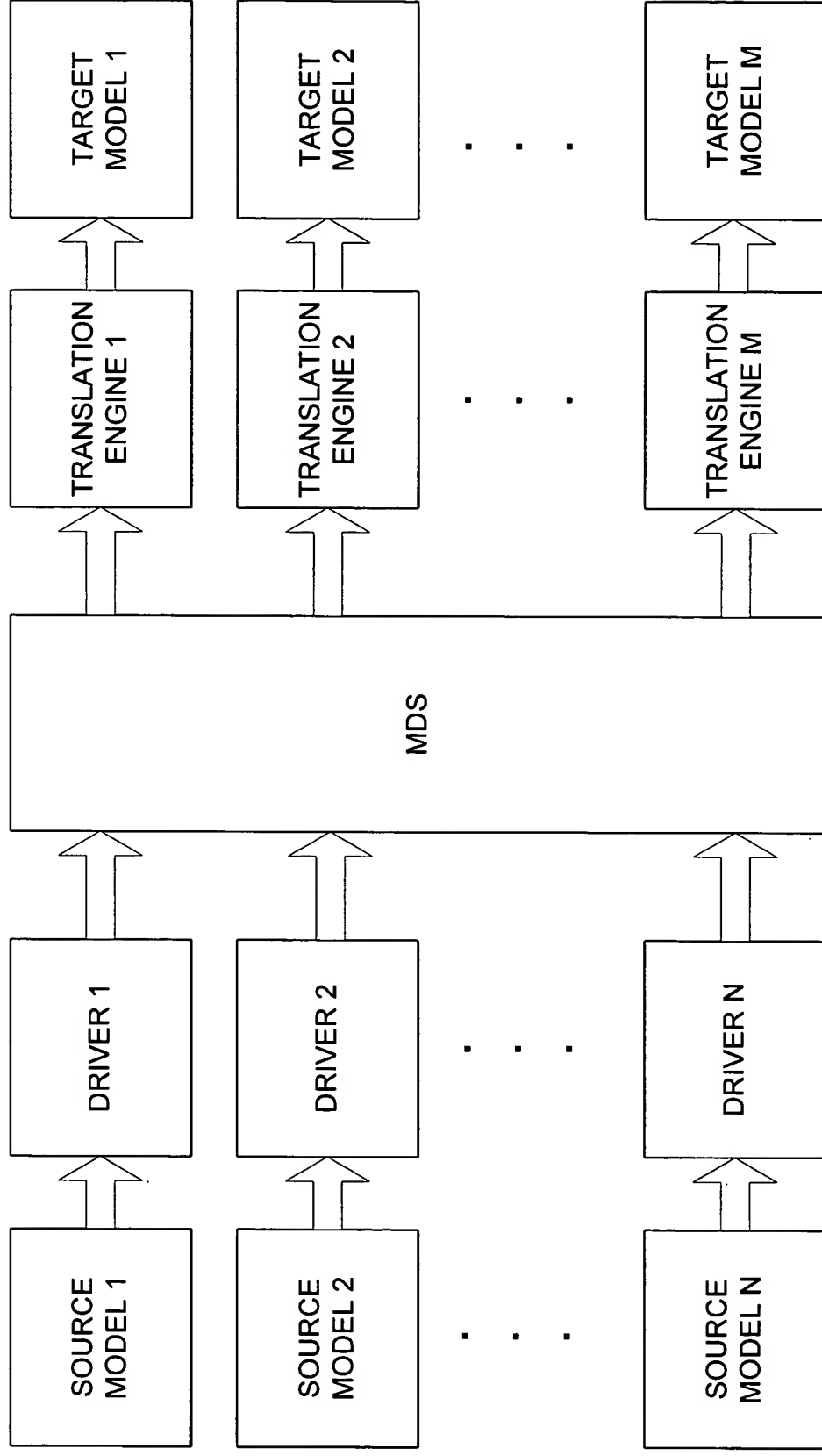


FIG. 21